

MSDS

(Material Safety data sheet)

for

Thermal Liquid Insulation Termostop

Section 1-Chemical Product and Company Information

Product Name: Thermal liquid insulation

Trade Name: Termostop

Manufactured by:
Metalotehnika LLC,
GjorchePetrov no.23
7500, Prilep
Republic of North
Macedonia

Emergency Telephone:

+ 389 76 473 611

Product Use:

Liquid isolation by nano technology for facades, floors, roofs, interior walls, pipes for hot and cold water, steamwater and hot air.

Section 2-Composition and Information on Ingredients

Water	40 – 50%
Resin Polymer	20 – 30 %
Zinc oxide	5 – 10 %
Microspheres	10 – 20 %
Mineral fillers	1 – 20 %

Section 3-Hazards Identification

According analysis no. 2016/6/184 from 13.06.2016 and expert opinion no. 03-21-43 from 31.10.2016 on the University St. Cyril and Methodius, is confirmed that Termostop is safe for environment.

According MKC EN ISO/IEC 17025 analysis for waste water from Termostop, it's confirmed that waste water is not dangerous for environment.

According Test Report no. RA39982 / 20.03.2020 from **Testing Center GLOBALTEST** Bulgaria, is confirmed that TermoStop contains < 0.03 VOC (Volatile organic compounds).

Section 4-First Aid Measures

INHALATION - Remove victim to fresh air.

EYE CONTACT - In case of eye contact, flush with clean water for 15 minutes. If contact lenses are worn, quickly removethem and flush the eyes with water. Seek medical attention.

SKIN CONTACT - Rinse thoroughly with soap and water. Do not allow coating to dry on skin as it will be hard to remove.

If redness persists, seek medical attention.

INGESTION - If swallowed, dilute with clean water. Do not induce vomiting. If vomiting occurs spontaneously, keep the head below hips to prevent aspiration of liquid into the lungs. Seek medical attention.

Notes to Physician: None known.

Section 5-Fire Fighting Measures

THIS MATERIAL IN LIQUID FORM WILL NOT BURN. THE DRIED COATING HAS LOW DEGREE OF BURNING.

Section 6-Accidental Release Measures

SPILL AND LEAK PROCEDURES: Wear protective gloves and clothing during cleanup.

Dispose of the waste in compliance with all state, regional, and local regulations.

LARGE SPILLS: Prevent materials from entering sewers and watercourses by diking or impounding the spilled material.

Advise authorities if the product has entered or may enter sewers, watercourses or extensive land areas.

Dispose of the waste in compliance with all state, regional, and local regulations.

Section 7-Handling and Storage

HANDLING PRECAUTIONS: Wear necessary Protective Equipment (gloves, protective clothes). Keep containers closed when not in use. Store in original containers.

STORAGE REQUIREMENTS: Protect from freezing and keep out of direct sunlight for extended periods.

Climate controlled storage conditions are best.

Section 8-Exposure Controls / Personal Protection

ENGINEERING CONTROLS: Recommended way for applying is with airless spray gun, adding enough water (5–15 %) before applying, other methods is with brush or roller. Use good painting practices.

VENTILATION: Use only with adequate ventilation. Ventilation should be sufficient to keep the area within occupational exposure limits.

ADMINISTRATIVE CONTROLS: None known

PROTECTIVE EQUIPMENT: Safety glasses or other protective eye-wear are recommended during spraying material on surface.

Protective gloves should be worn to prevent skin contact.

Contaminated Equipment: Contaminated clothing should be washed before reuse or discarded. Dried paint on clothing is non-hazardous. Equipment should be thoroughly cleaned after use.

Section 9-Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

Appearance:	smooth, creamy liquid	Odor: weak odor
Vapor Density:	same as water vapor	Odor threshold: no data
Bulk density of fresh mortar:	750kg/m ³ EN 13501-1:2007	pH: 6.5 BDS EN ISO 787-9:1999
Density in hardened condition:	325kg/m ³ BDS EN 1015-10:2001	Melting point: no data
Non-volatile matter content:	50% BDS EN ISO 3251:2008	Solubility: dilutable with water
Water vapour transmission:	130 BDS EN 7783:2011	
Water vapour diffusion resistance:	40 BDS EN 7783:2011	
Adhesion on substrate:	1,04MPa N/mm ²	
Volatile organic compounds VOC:	BDS EN ISO 11890-2:2013	< 0,03 %

Section 10-Stability and Reactivity

Stability: Stable

This mixture is incompatible with the following products: Solvents will coagulate the liquid.

Hazardous polymerization will not occur.

Section 11-Toxicological Information

Mixture Toxicity: None known

Component Toxicity: None known

Toxicological Information: No data found

Target Organs: None known

Effects of Overexposure: None known

Carcinogen Rating: None present in any reportable quantity

Section 12-Ecological Information

Ecological Information: This product is not hazardous, it is water based ecological product.

Section 13-Disposal Considerations

Material should be stored at 5 – 25 °C temperature condition and need to avoid its freezing.

Section 14-Transport Information

For transport of this product It must be protected in plastic packages and on a palette protected by a stretch foil.

Section 15-Other Information

Product for any purpose, energy efficient saves 30% energy